WEDRON

Wedron Operations — Wedron Silica Division
Pebble Beach Corporation
Post Office Box 176
Wedron, Illinois 60557 • 815-433-3696

December 26, 1978

Illinois Environmental Protection Agency
Permit Section
Division of Air Pollution Control
2200 Churchill Road
Springfield, IL 62706

Gentlemen:

We are requesting an operating permit for one new Sly Dynaclone dust collector to replace a worn-out (Tayco) collector now being used for Mill B sand dust collection (Permit No. 03031361). This equipment will improve air quality within the plant without adversely affecting the environment.

Yours truly,

Wedron Silica Division
PEBBLE BEACH CORPORATION

Gene Lamis

Gene E. Lamis
Project Engineer

GEL:rb
Attachments

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

APPLICATION FOR A PERMIT (A)
☐ CONSTRUCT ☒ OPERATE

NAME OF EQUIPMENT TO BE CONSTRUCTED OR OPERATED: Mill B Sand Bag House (B)

FOR AGENCY USE ONLY
I. D. NO. 099804AAB
PERMIT NO. 0303361
DATE 12-28-78

1a. NAME OF OWNER: Pebble Beach Corporation	2a. NAME OF OPERATOR: Wedron Silica Division
1b. STREET ADDRESS OF OWNER: Post Office Box 1098	2b. STREET ADDRESS OF OPERATOR: 400 West Higgins Road
1c. CITY OF OWNER: Pebble Beach	2c. CITY OF OPERATOR: Park Ridge
1d. STATE OF OWNER: California; 1e. ZIP CODE: 93953	2d. STATE OF OPERATOR: Illinois; 2e. ZIP CODE: 60068

3a. NAME OF CORPORATE DIVISION OR PLANT: Wedron Plant Wedron Silica Div.		3b. STREET ADDRESS OF EMISSION SOURCE: Post Office Box 176		
3c. CITY OF EMISSION SOURCE: Wedron	3d. LOCATED WITHIN CITY LIMITS: ☐ YES ☒ NO	3e. TOWNSHIP: Dayton	3f. COUNTY: LaSalle	3g. ZIP CODE: 60557

4. ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL) R. H. Reed	5. TELEPHONE NUMBER FOR AGENCY TO CALL: 815-433-3696
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) ☐ OWNER: ☐ OPERATOR ☒ EMISSION SOURCE	7. YOUR DESIGNATION FOR THIS APPLICATION: (C) ~~099804AAB~~ Snd Bg house

8. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT. BY AFFIXING HIS SIGNATURE HERETO HE FURTHER CERTIFIES THAT HE IS AUTHORIZED TO EXECUTE THIS APPLICATION.

AUTHORIZED SIGNATURE(S): (D)

BY _____ (SIGNATURE) _____ (DATE)
_____ (TYPED OR PRINTED NAME OF SIGNER)
_____ (TITLE OF SIGNER)

BY R. H. Reed (SIGNATURE) 12/26/78 (DATE)
R. H. Reed (TYPED OR PRINTED NAME OF SIGNER)
Manager of Engineering (TITLE OF SIGNER)

RECEIVED
DEC 28 1978
IEPA-DAPC
SPRINGFIELD

(A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY ONLY BE USED TO REQUEST ONE TYPE OF PERMIT - CONSTRUCTION OR OPERATION - AND NOT BOTH.

(B) ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS NAME WILL APPEAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY OTHER APPLICABLE FORMS AND INFORMATION.

(C) PROVIDE A DESIGNATION IN ITEM 7 ABOVE WHICH YOU WOULD LIKE THE AGENCY TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS.

(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH PCB REGS., CHAPTER 2, PART 1, RULE 103(a)(4) OR 103(b)(5) WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

9. DOES THIS APPLICATION CONTAIN A PLOT PLAN/MAP:
☐ YES ☒ NO

IF A PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:
AGENCY I.D. NUMBER 0 9 9 8 0 4 A A B APPLICATION NUMBER 0 3 0 1 0 7 1 8

IS THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 ACRE?
☐ YES ☒ NO: SPECIFY 1054 ACRES

10. DOES THIS APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S) THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE.
☒ YES ☐ NO

11a. WAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, OWNED OR CONTRACTED FOR, BY THE APPLICANT PRIOR TO APRIL 14, 1972:
☐ YES ☒ NO

IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT A, THAT:
(a) LISTS OR DESCRIBES THE EQUIPMENT
(b) STATES WHETHER THE EQUIPMENT WAS IN COMPLIANCE WITH THE RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION PRIOR TO APRIL 14, 1972.

11b. IS ANY EQUIPMENT, COVERED BY THIS APPLICATION, EQUIPMENT FOR WHICH AN OPERATING PERMIT HAS NOT PREVIOUSLY BEEN RECEIVED:
☒ YES ☐ NO

IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT B, THAT:
(a) LISTS OR DESCRIBES THE EQUIPMENT
(b) STATES WHETHER THE EQUIPMENT
(i) IS ORIGINAL OR ADDITIONAL EQUIPMENT
(ii) REPLACES EXISTING EQUIPMENT, OR
(iii) MODIFIES EXISTING EQUIPMENT
(c) PROVIDES THE ANTICIPATED OR ACTUAL DATE OF START-UP OF THE EQUIPMENT

12. IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION--INCORPORATION BY REFERENCE" BEEN COMPLETED.
☒ YES ☐ NO

APPLICATION FOR OPERATING PERMIT ONLY

13. DOES THE STARTUP OF AN EMISSION SOURCE COVERED BY THIS APPLICATION PRODUCE AIR CONTAMINANT EMISSION IN EXCESS OF APPLICABLE STANDARDS:
☐ YES ☒ NO
IF "YES," HAS FORM APC-203, "OPERATION DURING STARTUP" BEEN COMPLETED FOR THIS SOURCE:
☐ YES ☐ NO

14. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN EMISSION SOURCE DURING MALFUNCTIONS OR BREAKDOWNS:
☐ YES ☒ NO
IF "YES," HAS FORM APC-204, "OPERATION DURING MALFUNCTION AND BREAKDOWN" BEEN COMPLETED FOR THIS SOURCE:
☐ YES ☐ NO

15. IS AN EMISSION SOURCE COVERED BY THIS APPLICATION SUBJECT TO A FUTURE COMPLIANCE DATE:
☐ YES ☒ NO
IF "YES," HAS FORM APC-202, "COMPLIANCE PROGRAM & PROJECT COMPLETION SCHEDULE," BEEN COMPLETED FOR THIS SOURCE:
☐ YES ☐ NO

16. DOES THE FACILITY COVERED BY THIS APPLICATION REQUIRE AN EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE ACTION PLANS):
☐ YES ☒ NO

17. WAS THIS OPERATION THE SUBJECT OF A VARIANCE PETITION FILED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE JUNE 13, 1972:
☐ YES ☒ NO
IF "YES," CITE: PCB NUMBER(S) _____, DATE OF BOARD ORDER _____

WAS CONSTRUCTION OR MODIFICATION OF EQUIPMENT, SUFFICIENT TO ACHIEVE COMPLIANCE WITH THE "RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION" EFFECTIVE PRIOR TO APRIL 14, 1972, COMMENCED PRIOR TO APRIL 14, 1972:
☐ YES ☒ NO
IF "YES," EXPLAIN IN DETAIL, AND IDENTIFY EXPLANATION AS EXHIBIT D.

18. LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION SUBMITTED AS PART OF THIS APPLICATION. INCLUDE THE PAGE NUMBERS ON EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSARY):

APC-200	Page 1	~~APC-200~~	~~Page 8~~
APC-200	Page 2	~~APC-200~~	~~Page 9~~
Exhibit B	Page 3	~~APC-200~~	~~Page 10~~
APC-210	Page 4	Dwg No. 1905-R0	~~(illegible)~~
APC-260	Page 5		
APC-260	Page 6		
APC-260	Page 7		

TOTAL NUMBER OF PAGES 7

Mill B Sand Bag House
Operation Permit Application
Exhibit B

a). Equipment: Sly 11A Multi-Seal Dynaclone
dust filter bag collector
(Reverse Air)
13,000 CFM; 3.1:1 Air to Cloth Ratio

Fan: Clarage No. 226XL
ARR1; CWUBD Rotation;
9" Static Pressure;
13,750 CFM

Motor: 40 HP 1800 RPM 3Ø 480V

b). (ii) Replaces existing equipment

c). December 18, 1978 - Start-Up Date

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

DATA AND INFORMATION INCORPORATION BY REFERENCE	FOR AGENCY USE ONLY

1. NAME OF OWNER: Pebble Beach Corporation	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): Wedron Plant-Wedron Silica Div.
3. STREET ADDRESS OF EMISSION SOURCE: Post Office Box 176	4. CITY OF EMISSION SOURCE: Wedron
5. IDENTIFICATION NUMBER: 099 804 AAB	

6a. APPLICATION NUMBER: 03031361	b. IDENTIFICATION ON FLOW DIAGRAM: Dwg No. 992-R1
c. ☐ CONSTRUCTION ☒ OPERATION OF Mill B Sand Dust Collection System	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☐ YES ☒ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE. New Application Attached	

7a. APPLICATION NUMBER: C805066	b. IDENTIFICATION ON FLOW DIAGRAM: Dwg No. 992-R1
c. ☒ CONSTRUCTION ☐ OPERATION OF Sly Bag House for Mill B Sand Dust Collection System	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☒ YES ☐ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.	

8a. APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
c. ☐ CONSTRUCTION ☐ OPERATION OF	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☐ YES ☐ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.	

9a. APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
c. ☐ CONSTRUCTION ☐ OPERATION OF	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☐ YES ☐ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.	

CONDENSER

1. FLOW DIAGRAM DESIGNATION(S) OF CONDENSER:

2. MANUFACTURER:	3. MODEL NAME AND NUMBER:	4. HEAT EXCHANGE AREA: FT^2

AVERAGE OPERATION OF SOURCE		MAXIMUM OPERATION OF SOURCE	
5. COOLANT FLOW RATE PER CONDENSER: WATER ____ GPM AIR ____ SCFM OTHER: TYPE ____, FLOW RATE ____		10. COOLANT FLOW RATE PER CONDENSER: WATER ____ GPM AIR ____ SCFM OTHER: TYPE ____, FLOW RATE ____	
6. GAS FLOW RATE: SCFM		11. GAS FLOW RATE: SCFM	
7. COOLANT TEMPERATURE: INLET ____ °F OUTLET ____ °F	8. GAS TEMPERATURE: INLET ____ °F OUTLET ____ °F	12. COOLANT TEMPERATURE: INLET ____ °F OUTLET ____ °F	13. GAS TEMPERATURE: INLET ____ °F OUTLET ____ °F
9. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %		14. EFFICIENCY OF CONDENSER (SEE INSTRUCTION 4): %	

*ELECTRICAL PRECIPITATOR

1. FLOW DIAGRAM DESIGNATION OF ELECTRICAL PRECIPITATOR:

2. MANUFACTURER:	3. MODEL NAME AND NUMBER:

4. COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT^2

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
5. GAS FLOW RATE: SCFM	7. GAS FLOW RATE: SCFM
6. EFFICIENCY OF ELECTRICAL PRECIPITATOR (SEE INSTRUCTION 4): %	8. EFFICIENCY OF ELECTRICAL PRECIPITATOR (SEE INSTRUCTION 4): %

SUBMIT THE MANUFACTURER'S SPECIFICATIONS FOR THE ELECTRICAL PRECIPITATOR. REFERENCE THE INFORMATION TO THIS FORM.

*ELECTRICAL PRECIPITATORS VARY GREATLY IN THEIR DESIGN AND IN THEIR COMPLEXITY. THE ITEMS IN THIS SECTION PROVIDE A MINIMUM AMOUNT OF INFORMATION. THE APPLICANT MUST, HOWEVER, SUBMIT WITH THIS APPLICATION THE MANUFACTURER'S SPECIFICATIONS, INCLUDING ANY DRAWINGS, TECHNICAL DOCUMENTS, ETC. IF THE INFORMATION PROVIDED BY THE MANUFACTURER'S SPECIFICATIONS IS INSUFFICIENT FOR FULL AND ACCURATE ANALYSIS, THE AGENCY WILL REQUEST SPECIFIC ADDITIONAL INFORMATION.

FILTER UNIT

1. FLOW DIAGRAM DESIGNATION(S) OF FILTER UNIT: Sand Collector

2. MANUFACTURER: Sly Manufacturing Company	3. MODEL NAME AND NUMBER: 11A
4. FILTERING MATERIAL: Slyfab Filter Bags	5. FILTERING AREA: 4,092 Sq. ft.

6. CLEANING METHOD:
☐ SHAKER ☒ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET ☐ OTHER: SPECIFY ____

7. GAS COOLING METHOD: ☒ DUCTWORK: LENGTH ____ FT., DIAM ____ IN. Gas Temp. Approx. 10of Above Ambient
☐ BLEED-IN AIR ☐ WATER SPRAY ☐ OTHER: SPECIFY

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
8. GAS FLOW RATE (FROM SOURCE): 12,500 SCFM	12. GAS FLOW RATE (FROM SOURCE): 13,000 SCFM
9. GAS COOLING FLOW RATE: Gas 10°f Above Ambient BLEED-IN AIR ____ SCFM, WATER SPRAY ____ GPM	13. GAS COOLING FLOW RATE: Gas 10°f Above Ambient BLEED-IN AIR ____ SCFM, WATER SPRAY ____ GPM
10. INLET GAS CONDITION: Gas 10°f Above Ambient TEMPERATURE ____ °F DEWPOINT ____ °F	14. INLET GAS CONDITION: Gas 10°f Above Ambient TEMPERATURE ____ °F DEWPOINT ____ °F
11. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.9 %	15. EFFICIENCY OF FILTER UNIT (SEE INSTRUCTION 4): 99.9 %

EMISSION INFORMATION

1. NUMBER OF IDENTICAL CONTROL UNITS OR CONTROL SYSTEMS (DESCRIBE AS REQUIRED):

AVERAGE OPERATION OF SOURCE

CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNIT OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	2a. * 30×10^{-6} GR/SCF	b. 33×10^{-4} LB/HR	c. Based on ArRo Lab Test
CARBON MONOXIDE	3a. 0 PPM (VOL)	b. 0 LB/HR	c. #106-B performed on
NITROGEN OXIDES	4a. 0 PPM (VOL)	b. 0 LB/HR	c. existing equipment. Grain
ORGANIC MATERIAL	5a. 0 PPM (VOL)	b. 0 LB/HR	c. loading on new equipment
SULFUR DIOXIDE	6a. 0 PPM (VOL)	b. 0 LB/HR	c. will be equivalent.
OTHER (SPECIFY)	7a. 0 PPM (VOL)	b. 0 LB/HR	c.

MAXIMUM OPERATION OF SOURCE

CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNIT OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	8a. * 30×10^{-6} GR/SCF	b. 33×10^{-4} LB/HR	c. (See Above)
CARBON MONOXIDE	9a. 0 PPM (VOL)	b. 0 LB/HR	c.
NITROGEN OXIDES	10a. 0 PPM (VOL)	b. 0 LB/HR	c.
ORGANIC MATERIAL	11a. 0 PPM (VOL)	b. 0 LB/HR	c.
SULFUR DIOXIDE	12a. 0 PPM (VOL)	b. 0 LB/HR	c.
OTHER (SPECIFY)	13a. 0 PPM (VOL)	b. 0 LB/HR	c.

**"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

* 99.8% SiO_2

EXHAUST POINT INFORMATION

1. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT:
Sand Collector Stack

2. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):
Fan/Stack on Mill B collector platform with hood facing east

3. EXIT HEIGHT ABOVE GRADE:
33'-2"

4. EXIT DIAMETER:
25-3/16" x 21-7/8" (3.83 ft^2)

5. GREASTEST HEIGHT OF NEARBY BUILDINGS:
120' FT

6. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:
270' FT

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
7. EXIT GAS TEMPERATURE: 5°f Above Ambient °F	9. EXIT GAS TEMPERATURE: 5°f Above Ambient °F
8. GAS FLOW RATE THROUGH EACH EXIT: **13,250 ACFM	10. GAS FLOW RATE THROUGH EACH EXIT: **13,750 ACFM

** 750 CFM originates from reverse air fan

PERMIT INFORMATION AND REFERENCE

3. APPLICATION NUMBER	IDENTIFICATION NUMBER	IS THE DATA AND INFORMATION PREVIOUSLY SUBMITTED TRUE, CORRECT, CURRENT AND COMPLETE?	DURING THIS REPORTING PERIOD MAXIMUM EMISSIONS FROM THIS OPERATION HAVE: INCREASED	REMAINED THE SAME	DECREASED	PERCENTAGE BY WHICH EMISSIONS HAVE INCREASED OR DECREASED
03031361	Mill B Sand	☒ YES ☐ NO		X		0
03031363	Mill B Flour	☒ YES ☐ NO		X		0
03031364	Sand Cooling	☒ YES ☐ NO		X		0
05020046	Gas & Diesel Tanks	☒ YES ☐ NO		X		0
03010718	Boiler House	☒ YES ☐ NO		X		0
		☐ YES ☐ NO				
		☐ YES ☐ NO				
		☐ YES ☐ NO				

4. PERIOD COVERED BY THIS REPORT: FROM _____ TO _____